What is claimed is

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- 1. A method for searching physiologically active substances comprising; examining a receptor having an amino acid sequence having two or more sizes for the same receptor by comparing a cDNA sequence of said receptor, wherein the receptor being a receptor of a cell producing an antagonist to substance in a body or a receptor of a cell producing an antagonist to said dell *per se*; and examining which region of the longer receptor are missing in the shorter receptor by comparing the sequences of the cDNAs.
 - 2. A method of producing physiologically active peptides, wherein the missing region determined by the method of claim 1, or its derivatives, are produced.
 - 3. A method of claim 2, wherein the missing region is produced.
 - 4. A method of claim 3, wherein the missing region is synthesized by chemical synthesis.
- 5. A medicine for treating diabetes comprising as an active component a peptide having the effect of increased production of insulin by insulin producing cells, the peptide having the amino acid sequences indicated by the sequence numbers 1 or 5 of the sequence table or having amino acid sequences obtained by the substitution inside, deletion from, insertion into or addition to said sequences of one or several amino acids.

6. A medicine for treating diabetes of claim 5 comprising as an active component a peptide having the amino acid sequence indicated by the sequence number 1 of the sequence table.

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7. A medicine for treating diabetes of claim 5 comprising as an active component a peptide having the amino acid sequence indicated by the sequence number 5 of the sequence table.

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- 8. An insulin production regulator comprising as an active component a peptide having the effect of regulated production of insulin by insulin producing cells, the peptide having the amino acid sequence indicated by the sequence number 2 of the sequence table or amino acid sequences obtained by the substitution inside, deletion from, insertion into or addition to said sequence of one or several amino acids.
 - 9. The insulin production regulator of claim 8 comprising as an active component a peptide having the amino acid sequence indicated by the sequence number 2.
- 10. The insulin production regulator of claim 8 or 9, the insulin production regulator being an insulin production inhibitor.
 - 11. The insulin production regulator of claim 8 or 9, the insulin production regulator being a medicine for treating diabetes.
 - 12. A gastric acid secretion regulator comprising as an active component a peptide having the effect of regulating the secretion of gastric acid, the peptide having the amino acid sequences indicated by the sequence numbers 3 or 4 of the sequence table or amino acid sequences obtained by the substitution inside, delction from, insertion into or addition to said sequences of one or several amino acids..

- 13. The gastric acid secretion regulator of claim 12 comprising as an active component a peptide having the amino acid sequences indicated by the sequence numbers 3 or 4 of the sequence table.
- 14. The gastric acid secretion regulator of claim 12 or 13, the gastric acid secretion regulator being an inhibitor of gastric acid secretion.

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- 15. A growth hormone production regulator comprising as an active component a peptide having the effect of regulating the production of growth hormone, the peptide having the amino acid sequences indicated by the sequence number 6 of the sequence table or having amino acid sequences obtained by the substitution inside, deletion from, insertion into or addition to said sequences of one or several amino acids.
- 16. The growth hormone production regulator of claim 15 comprising as an active component, a peptide having the amino acid sequence indicated by the sequence number 6 of the sequence table.
 - 17. The growth hormone production regulator of claim 15 or 16, the growth hormone production regulator being a stimulator of growth hormone production.